TEST REPORT OF PHYSICAL PROPERTIES OF CEMENT - 53 Grade

Lab ID	:	CP-2017-02-10-04 **Date: 10-02-2017**
Customer	:	Assistant Executive Engineer, Yelahanka Sub Division, BBMP, Bangalore.
Address	:	Yelahanka Sub Division, BBMP, Bangalore.
Project Name	:	Improvements of roads and drains at Sushelamma layout in ward No.02 of Yelahanka Sub Division.
Agency	:	Technical Manager(West), KRIDL, BBMP, Bangalore.
Customer's Reference	:	BBMP/EE(YNK.D)/W.O/113/2016-17
Source of Sample	:	Sample supplied by Agency
Sample Condition	:	Satisfactory
Date of Receipt	:	10-02-17
Sample ID No	:	2017-02-10-04/01
Sample Type	:	Birla Super 53 grade
Reference to BIS codes	:	IS 12269 : 2013, 53 Grade Ordinary Portland cement Specification , IS 4031 (Part 1,2 3,4,5, 6,11):1988 IS 4031 Part 1 DETERMINATION OF FINENESS BY DRY SIEVING, Clause 4.4 IS 4031 Part 2, Determination of Fineness by Blaine Air Permeability Method, Clause 5 IS 4031 Part 3, Determination of Soundness, Clause 5,Clause 6 IS 4031 Part 4, Determination of Consistency of Standard Cement Paste, Clause 5 IS 4031 Part 5, Determination of Initial & Final Setting Time, Clause 5 IS 4031 Part 6, Determination of Compressive Strength, Clause 6 IS 4031 Part 11,DETERMINATION OF DENSITY , Clause 6
Date of test	:	10-02-2017 to 10-03-2017

Sl.No.	Physical properties	Results	Requirement as per IS 12269: 2013
1	Fineness by dry sieving (%)	2.45	–
2	Finess by Air permeablity method (m2/kg, Min)	275	225m^2/kg, Min
3	Density (gm/cc)	2.9	–
4	Standard Consistency (%)	27.0%	Not specified
5	Initial Setting time	265 minutes	Not less than 30 minutes

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TEST REPORT OF PHYSICAL PROPERTIES OF CEMENT - 53 Grade

Lab ID : **CP-2017-02-10-04** **Date: 10-02-2017**

Sample ID No : **2017-02-10-04/01**

Sl.No.	Physical properties	Results	Requirement as per IS 12269: 2013
6	Final Setting time	300 minutes	Not more than 600 minutes
7	Soundness (Le Chatelier's Method)	1mm	Not more than 10 mm
8	Compressive Strength		
	3 Days	28.5N/mm^2	Not less than 27 N/mm^2
	7 Days	40.0N/mm^2	Not less than 37 N/mm^2
	28 Days	58.5N/mm^2	Not less than 53 N/mm^2

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Harshitha

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Authorized Signatory
Quality Manager

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TEST REPORT ON COARSE AGGREGATES

Lab ID	:	**CP-2017-03-06-04** **Date: 10-03-2017**
Customer	:	Assistant Executive Engineer, Yelahanka Sub Division, BBMP, Bangalore.
Address	:	Yelahanka Sub Division, BBMP, Bangalore.
Project Name	:	Improvements of roads and drains at Sushelamma layout in ward No.02 of Yelahanka Sub Division.
Agency	:	Technical Manager(West), KRIDL, BBMP, Bangalore.
Customer Reference	:	BBMP/EE(YNK.D)/W.O/113/2016-17
Source of Sample	:	Sample supplied by the Agency
Sample Condition	:	Satisfactory
Date of Receipt	:	06-03-17
Sample ID No	:	2017-03-06-04/01
Sample Type/ Size	:	20mm down size coarse aggregate
Reference to BIS codes	:	IS: 383 - 1970 (RA2016) (Specification for Coarse and fine Aggregates from natural sources for concrete IS: 2386 :1963(Part - 1, 2, 3) RA2011 IS 2386 Part 1: Particle Size and Shape IS 2386 Part 2: Estimation of Deleterious Materials and Organic Impurities. IS 2386 Part 3: Specific gravity, Density, Voids,Water Abservation
Date of test	:	06-03-17

SIEVE ANALYSIS (PARTICLE SIZE DISTRIBUTION) OF 20MM DOWN COARSE AGGREGATE:

Total weight taken : 5000 grams

Sample No.	Sieve No.	Weight Retained in gms	Cumulative Weight Retained in gms	% Cumulative Weight Retained	% Passing	Required as per IS 383:1970
1	40 mm	0	0	0	100	100
2	20 mm	230	230	4.6	95.4	90-100
3	10 mm	2689	2919	58.38	41.62	25-55
4	4.75 mm	1990	4909	98.18	1.82	0-10
5	Pan	91	5000	100	0	–

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TEST REPORT ON COARSE AGGREGATES

Lab ID : CP-2017-03-06-04 **Date: 10-03-2017**

Sample ID No : 2017-03-06-04/01

PHYSICAL PROPERTIES

SLno	Tests	Result	Requirements as per IS:383-1970
1	Flakiness Index(%)	12.1	–
2	Elongation Index(%)	13.8	–
3	Specific Gravity	2.67	–
4	Bulk Density(Loose) (Kg/l)	1.48	–
5	Bulk Density(Compacted) (Kg/l)	1.53	–
6	Water Absorption(%)	0.18	–
8	Aggregate crushing Value(%)	23.8	Shall not exceed 45% by weight for aggregates used for concrete other than for wearing surface and 30% by weight for concrete for wearing surfaces such as runways, roads, pavements
9	Aggregate Impact Value(%)	21.4	Shall not exceed 45% by weight for aggregates used for concrete other than for wearing surface and 30% by weight for concrete for wearing surfaces such as runways, roads, pavements

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Authorized Signature
Quality Manager

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TEST REPORT OF FINE AGGREGATE

Lab ID	:	**CP-2017-03-06-05** **Date: 10-03-17**
Customer	:	Assistant Executive Engineer, Yelahanka Sub Division, BBMP, Bangalore.
Address	:	Yelahanka Sub Division, BBMP, Bangalore.
Project Name	:	Improvements of roads and drains at Sushelamma layout in ward No.02 of Yelahanka Sub Division.
Agency	:	Technical Manager(West), KRIDL, BBMP, Bangalore.
Customer's Reference	:	BBMP/EE(YNK.D)/W.O/113/2016-17
Source of Sample	:	Sample supplied by the Agency
Sample Condition	:	Satisfactory
Date of Receipt	:	06-03-17
Sample ID No	:	2017-03-06-05/02
Sample Type	:	Fine Aggregate
Reference to BIS codes	:	IS: 383 - 1970 (RA2016) (Specification for Coarse and fine Aggregates from natural sources for concrete IS: 2386 :1963(Part - 1, 2, 3) RA2011 IS 2386 Part 1: Particle Size and Shape IS 2386 Part 2: Estimation of Deleterious Materials and Organic Impurities. IS 2386 Part 3: Specific gravity, Density, Voids,Water Abservation
Date of test	:	06-03-17
Total weight taken	:	1000 grams

Sl.no	Sieve Size	Weight Retained (gms)	Cumulative Weight Retained (gms)	% Cumulative Weight Retained	% Passing	Requirement as per IS 383:1970			
						Grading Zone I	Grading Zone II	Grading Zone III	Grading Zone IV
1	10 mm	0	0	0	100	100	100	100	100
2	4.75 mm	69	69	6.9	93.1	90-100	90-100	90-100	95-100
3	2.36 mm	108	177	17.7	82.3	60-95	75-100	85-100	95-100
4	1.18 mm	92	269	26.9	73.1	30-70	55-90	75-100	90-100
5	600 micron	239	508	50.8	49.2	15-34	35-59	60-79	80-100
6	300 micron	336	844	84.4	15.6	5-20	8-30	12-40	15-50
7	150 micron	115	959	95.9	4.1	0-10	0-10	0-10	0-15
8	Pan	41	1000	100	0	---	---	---	---
Result :The tested Sample Conforms to Grading Zone II									

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TEST REPORT OF FINE AGGREGATE

Lab ID : **CP-2017-03-06-05**

Sample ID No : 2017-03-06-05/02

Date: 10-03-17

PHYSICAL PROPERTIES

Sl.no	Tests	Result	Requirements as per IS:383-1970 (RA2016)
1	Water Absorption(%)	2.65	–
2	Specific Gravity	2.53	–
3	Material finer than 75 micron(%)	5.20	Not more than 15 percent

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TEST REPORT OF PRECAST COVER SLAB

Lab ID	:	CP-2017-03-06-05
Customer	:	Assistant Executive Engineer, Yelahanka Sub Division, BBMP, Bangalore.
Address	:	Yelahanka Sub Division, BBMP, Bangalore.
Project Name	:	Improvements of roads and drains at Sushelamma layout in ward No.02 of Yelahanka Sub Division.
Agency	:	Technical Manager(West), KRIDL, BBMP, Bangalore.
Customer's Reference	:	BBMP/EE(YNK.D)/W.O/113/2016-17
Source of Sample	:	Sample supplied by Agency
Sample Condition	:	Satisfactory
Date of Receipt	:	06-03-17
Sample ID No	:	2017-03-06-05/04
Sample Type /Size	:	Precast Cover Slab
Reference to BIS codes	:	IS: 516 - 1959 Methods of Tests for Strength of Concrete
Date of test	:	06/03/2017

Date: 10-03-17

Sl. No.	Identification Mark	Diameter of the core	Height of the core	Weight of the core	Area	Failure Load	Core Compressive strength	Corrected Cylinder Compressive strength	Equivalent Cube Compressive strength
		(mm)	(mm)	(mm)	(Sq.mm)	(KN)	(N/mm^2)	(N/mm^2)	(N/mm^2)
1	Cover Slab-1	75.51	100.18	1.116	4477	99.6	22.2	20.7	25.9
2	Cover Slab-2	75.49	100.22	1.122	4475	98.1	21.9	20.4	25.5
3	Cover Slab-3	75.50	100.11	1.118	4476	98.4	22.0	20.4	25.6

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DETERMINATION OF FLAKINESS INDEX AND ELONGATION INDEX OF COARSE AGGREGATE(IS 2386 (Part 1) 1963 (RA 2007)

Lab ID	:	**CP-RW-2017-03-13-05** **Date: 15-03-17**
Customer	:	Assistant Executive Engineer, Yelahanka Sub Division, BBMP, Bangalore.
Address	:	Yelahanka Sub Division, BBMP, Bangalore.
Project Name	:	Improvements of roads and drains at Sushelamma layout in ward No.02 of Yelahanka Sub Division.
Agency	:	Technical Manager(West), KRIDL, BBMP, Bangalore.
Customer Reference	:	BBMP/EE(YNK.D)/W.O/113/2016-17
Source of Sample	:	Sample supplied by Agency
Sample Condition	:	Satisfactory
Date of Receipt	:	13-03-17
Sample ID No	:	2017-03-13-05/01
Type of Mix	:	Coarse Aggregate for WMM (Wet Mix Macadam)
Date of test	:	13-03-17

Result:

Index	Percentage of Flakiness and Elongation Index	Secified limits as per MORTH specification table 400-12
Flakiness Index	10.7%	Combined Flakiness & Elongation Index for WMM is Maximum 35%
Elongation Index	13.1%	
Combined Flakiness and Elongation Index for WMM	23.8%	

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TEST REPORT OF AGGEGRATE IMPACT VALUE
IS: 2386 Part IV

Lab ID	:	**CP-RW-2017-03-13-05**
Customer	:	Assistant Executive Engineer, Yelahanka Sub Division, BBMP, Bangalore.
Address	:	Yelahanka Sub Division, BBMP, Bangalore.
Project Name	:	Improvements of roads and drains at Sushelamma layout in ward No.02 of Yelahanka Sub Division.
Agency	:	Technical Manager(West), KRIDL, BBMP, Bangalore.
Customer Reference	:	BBMP/EE(YNK.D)/W.O/113/2016-17
Source of Sample	:	Sample supplied by Agency
Sample Condition	:	Satisfactory
Date of Receipt	:	13-03-17
Sample ID No	:	2017-03-13-05/01
Type of Mix	:	Coarse Aggregate for WMM (Wet Mix Macadam)
Date of test	:	13-03-17

Date: 15-03-17

Sl.No	Particulars of observations	Index	TEST 1	TEST 2
1	Total weight of the surface dry sample sample (passing 12.5 mm and retained on 10mm sieve)	A	302.7	302.1
2	Weight of fraction passing 2.36mm sieve After giving 15 blows	B	66.8	69.1
3	weight of fraction retained 2.36mm sieve After giving 15 blows	C	235.2	232.5
4	Total weight of (B+C) is less than the initial weight (Weight A) by more than one gram the result shall be discarded and a fresh test made.	A-(B+C)	0.7	0.5
5	Aggregate impact value	(B/A)*100	22.1	22.9
6	Aggregate impact value (Mean of two tests)	Pecentage	22.5	

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TEST REPORT OF CEMENT CONCRETE KERB STONE

Lab ID	:	**CP-2017-03-06-05**
Customer	:	Assistant Executive Engineer, Yelahanka Sub Division, BBMP, Bangalore. **Date: 10-03-17**
Address	:	Yelahanka Sub Division, BBMP, Bangalore.
Project Name	:	Improvements of roads and drains at Sushelamma layout in ward No.02 of Yelahanka Sub Division.
Agency	:	Technical Manager(West), KRIDL, BBMP, Bangalore.
Customer's Reference	:	BBMP/EE(YNK.D)/W.O/113/2016-17
Source of Sample	:	Sample supplied by Agency
Sample Condition	:	Satisfactory
Date of Receipt	:	06-03-17
Sample ID No	:	2017-03-06-05/03
Sample Type /Size	:	CC Kerb Stone/ 450*165*400mm
Reference to BIS codes	:	IS: 516 - 1959 Methods of Tests for Strength of Concrete
Date of test	:	06/03/2017

Sl. No.	Identification Mark	Diameter of the core	Height of the core	Weight of the core	Area	Failure Load	Core Compressive strength	Corrected Cylinder Compressive strength	Equivalent Cube Compressive strength
		(mm)	(mm)	Kg	(Sq.mm)	(KN)	(N/mm2)	(N/mm2)	(N/mm2)
1	A	100.51	165.26	2.954	7933	163.1	20.6	20.6	25.7
2	B	100.53	165.22	2.972	7936	165.2	20.8	20.8	26.0
3	C	100.51	165.25	2.927	7933	164.1	20.7	20.7	25.9

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TEST RESULTS OF GRADATION FOR GSB
(IS 2386:(Part 1) 1963 (RA2011)

Lab ID	:	CP-RW-2017-03-06-03 **Date: 10-03-17**
Customer	:	Assistant Executive Engineer, Yelahanka Sub Division, BBMP, Bangalore.
Address	:	Yelahanka Sub Division, BBMP, Bangalore.
Project Name	:	Improvements of roads and drains at Sushelamma layout in ward No.02 of Yelahanka Sub Division.
Agency	:	Technical Manager(West), KRIDL, BBMP, Bangalore.
Customer Reference	:	BBMP/EE(YNK.D)/W.O/113/2016-17
Source of Sample	:	Sample supplied by Agency
Sample Condition	:	Satisfactory
Date of Receipt	:	06-03-17
Sample ID No	:	2017-03-06-03/01
Type of Mix	:	GSB (Granular Sub Base)
Date of test	:	06-03-17
Oven Dry Weight	:	10120 Grams

IS Sieve Size(mm)	Weight Retained (gm)	Comulative Weight Retained (gm)	Comulative % of Retained	Comulative % of Passing	Spec. Limit Vide Table 400.1 MORTH Specification
75	0	0	0	100	100
53	991	991	9.8	90.2	80-100
26.5	1686	2677	26.5	73.5	55-90
9.5	1299	3976	39.3	60.7	35-65
4.75	1493	5469	54.0	46.0	25-55
2.36	1769	7238	71.5	28.5	20-40
0.425	1665	8903	88.0	12.0	10-25
0.075	893	9796	96.8	3.2	0-5

TESTS ON FILLER SCREEN MATERIALS

Sl no	Particulars	Test results	Spec.Limit Vide Table 400.2 MORTH Specification
1	Liquid Limit, %	23.63%	Maximum 25
2	Plasticity index, %	Non plastic	Maximum 6

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TEST RESULTS OF GRADATION FOR WMM

Lab ID	:	**CP-RW-2017-03-13-05** **Date: 15-03-17**
Customer	:	Assistant Executive Engineer, Yelahanka Sub Division, BBMP, Bangalore.
Address	:	Yelahanka Sub Division, BBMP, Bangalore.
Project Name	:	Improvements of roads and drains at Sushelamma layout in ward No.02 of Yelahanka Sub Division.
Agency	:	Technical Manager(West), KRIDL, BBMP, Bangalore.
Customer Reference	:	BBMP/EE(YNK.D)/W.O/113/2016-17
Source of Sample	:	Sample supplied by Agency
Sample Condition	:	Satisfactory
Date of Receipt	:	13-03-17
Sample ID No	:	2017-03-13-05/01
Type of Mix	:	WMM (Wet Mix Macadam)
Date of test	:	13-03-17
Oven Dry Weight	:	10000 Grams

IS Sieve Size(mm)	Weight Retained (gm)	Comulative Weight Retained (gm)	Comulative % of Retained	Comulative % of Passing	Spec.I.Vide Table 400.13 MORTH Specification
53	0	0	0	100	100
45	198	198	1.98	98.0	95-100
22.4	2752	2950	29.50	70.5	60-80
11.2	1487	4437	44.37	55.6	40-60
4.75	1798	6235	62.35	37.7	25-40
2.36	1287	7522	75.22	24.8	15-30
0.6	1087	8609	86.09	13.9	8-22
0.075	912	9521	95.21	4.8	0-5

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TEST REPORT ON BITUMEN

Lab ID	:	**CP-2017-03-13-04**
Customer	:	Assistant Executive Engineer, Yelahanka Sub Division, BBMP, Bangalore.
Address	:	Yelahanka Sub Division, BBMP, Bangalore.
Project Name	:	Improvements of roads and drains at Sushelamma layout in ward No.02 of Yelahanka Sub Division.
Agency	:	Technical Manager(West), KRIDL, BBMP, Bangalore.
Customer's Reference	:	BBMP/EE(YNK.D)/W.O/113/2016-17
Source of Sample	:	Sample supplied by Agency
Sample Condition	:	Satisfactory
Date of Receipt	:	13-03-17
Sample ID No	:	2017-03-13-04/01
Sample Type	:	Bitumen
Reference to BIS codes	:	IS: 1201-1220(1978) (Reaffirmed-2004),
Date of test	:	14-03-17

Date: 17-03-17

Test Results

Sl.no	Name of Test	Result	Requirements as per IS:73-2013
1	Penetration at 25°C , in 1/10th mm	67	60 to 70
2	Softening Point, °C	48.8	Min. 40°C
3	Ductility, cm	96	Min. 75cm
4	Flash point, °C	226	Min. 220°C
	Fire point, °C	252.5	

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4, 7TH MAIN MALLESWARAM, BANGALORE -3
Certificate No.: T- 4358

TESTS RESULTS ON AGGREGATE IMPACT VALUE
(IS:2386 Part IV)

Lab ID	:	**CP-RW-2017-03-13-04** **Date: 17-03-17**
Customer	:	Assistant Executive Engineer, Yelahanka Sub Division, BBMP, Bangalore.
Address	:	Yelahanka Sub Division, BBMP, Bangalore.
Project Name	:	Improvements of roads and drains at Sushelamma layout in ward No.02 of Yelahanka Sub Division.
Agency	:	Technical Manager(West), KRIDL, BBMP, Bangalore.
Customer Reference	:	BBMP/EE(YNK.D)/W.O/113/2016-17
Source of Sample	:	Sample supplied by Agency
Sample Condition	:	Satisfactory
Date of Receipt	:	13-03-17
Sample ID No	:	2017-03-13-04/01
Type of Mix	:	Coarse Aggregate for DBM(Dense Bituminous Macadam)
Date of test	:	14-03-17

Sl.No	PARTICULAR OF OBSERVATION	INDEX	TEST 1	TEST 2
1	Total weight of the surface dry sample sample (passing 12.5 mm and retained on 10mm sieve)	A	314.5	314.2
2	Weight of fraction passing 2.36mm sieve After giving 15 blows	B	70.1	67.3
3	weight of fraction retained 2.36mm sieve After giving 15 blows	C	243.6	246.2
4	Total weight of (B+C) is less than the initial weight (Weight A) by more than one gram the result shall be discarded and a fresh test made.	A-(B+C)	0.8	0.7
5	Aggregate impct value	(B/A)*100	22.29	21.42
6	Aggregate impct value (Mean of two tests)		21.9	

Note:-
The results pertain to the samples received and tested.
All information furnished by Customer/Representative
Any correction in the report will make this report invalid.
This report without prior written approval should not be reproduced or published in full or part.
Samples will be disposed after 30 days from the date of issue of test certificate

Prepared By:
Harshitha

FOR CIVIL Pro.
CIVIL Pro BANGALORE Sig..... Date.....
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Authorized Signatory
Quality Manager

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4, 7TH MAIN MALLESWARAM, BANGALORE -3
Certificate No.: T- 4358

DETERMINATION OF FLAKINESS INDEX AND ELONGATION INDEX OF COARSE AGGREGATE (IS 2386 (Part 1) 1963 (RA 2007)

Lab ID	:	**CP-RW-2017-03-13-04**
Customer	:	Assistant Executive Engineer, Yelahanka Sub Division, BBMP, Bangalore. **Date: 17-03-17**
Address	:	Yelahanka Sub Division, BBMP, Bangalore.
Project Name	:	Improvements of roads and drains at Sushelamma layout in ward No.02 of Yelahanka Sub Division.
Agency	:	Technical Manager(West), KRIDL, BBMP, Bangalore.
Customer Reference	:	BBMP/EE(YNK.D)/W.O/113/2016-17
Source of Sample	:	Sample supplied by Agency
Sample Condition	:	Satisfactory
Date of Receipt	:	13-03-17
Sample ID No	:	2017-03-13-04/01
Type of Mix	:	Coarse Aggregate for DBM (Dense Bituminous Macadam)
Date of test	:	14-03-17

Result:

Index	Percentage of Flakiness and Elongation Index	Secified limits as per MORTH specification table 500-8
Flakiness Index	12.1%	Combined Flakiness & Elongation Index for DBM is Maximum 35%
Elongation Index	10.5%	
Combined Flakiness and Elongation Index for DBM	22.6%	

Note:-

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CIVIL Pro BANGALORE Sig..... Date.....

R KARTHIK RECHAN
Authorized Signatory
Quality Manager

Prepared By:
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